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Claim Amendments:

Please amend the claims to read as follows:

--1. (currently amended) A high specimen yield anti-reflux head for a needle aspiration biopsy device, comprising:

a hub defining a specimen collection well <u>with a floor at its bottom</u> and mounting a needle having a shaft with an open pointed tip; and

a sample passageway extending from the pointed tip of the needle to a segment inside the hub, the sample passageway opening inside the hub in spaced relation to [[a]] the floor of the collection well such that a specimen can pass through the needle into the hub and be deposited in the collection well from above the floor.

- 2. (original) The device of claim 1, wherein the needle defines the entire passageway extending from the pointed tip to a contoured proximal end.
- 3. (original) The device of claim 2, wherein the hub defines an opening in the floor of the collection well through which the needle shaft extends.
- 4. (original) The device of claim 2, wherein the proximal end of the needle includes a segment that extends along and opens about a lateral axis at an angle to a longitudinal axis of the needle.
- 5. (original) The device of claim 4, wherein the lateral and longitudinal axes are essentially perpendicular.
- 6. (original) The device of claim 3, wherein the proximal end of the needle in part follows the contour of the collection well.
- 7. (original) The device of claim 1, wherein the passageway is defined in part by the needle and in part by an internal channel in the hub.
- 8. (original) The device of claim 7, wherein the needle has a straight proximal end disposed at an opening in the hub defining an end of the channel.
- 9. (original) The device of claim 8, wherein the proximal end of the needle has raised barbs.

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- 10. (original) The device of claim 8, wherein the channel includes a lateral segment that extends along and opens about a lateral axis at an angle to a longitudinal axis of the needle.
- 11. (original) The device of claim 10, wherein the lateral and longitudinal axes are essentially perpendicular.
- 12. (original) The device of claim 1, wherein the collection well has an anticoagulant surface.
- 13. (original) The device of claim 12, wherein the anti-coagulant surface is a coating of ACD or EDTA.
- 14. (original) The device of claim 1, wherein the needle has an anti-friction surface.
- 15. (original) The device of claim 14, wherein the anti-friction surface is a Teflon coating.
 - 16. (original) The device of claim 1, wherein the hub includes an outer grip.
- 17. (original) The device of claim 15, wherein the hub has an open mouth allowing access to the collection well.
- 18. (original) The device of claim 17, further including a lid securable to the hub to cover the mouth.
- 19. (original) The device of claim 1, wherein the collection well has a volume of at least 100 $\mu L.$
- 20. (original) The device of claim 1, further including a sheath stand defining an elongated cavity for containing the needle and having an open end mountable to the hub.
- 21. (original) The device of claim 1, wherein the needle defines a scoop opening at a side of the needle in communication with the passageway.
- 22. (currently amended) A high specimen yielding anti-reflux needle aspiration biopsy device, comprising:
 - a syringe including a barrel and a piston slidable within the barrel;
 - a valve for controlling an opening in the syringe barrel;

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a hub linked to the valve and defining a specimen collection well; and a needle mounted to the hub having a shaft with an open pointed tip; wherein one or more at least one of the hub and needle define a sample passageway extending from the needle tip to inside the hub, the sample passageway opening inside the hub in spaced relation to a floor of the collection well such that a specimen can pass through the needle into the hub and be deposited in the collection well from above the floor.

- 23. (original) The device of claim 22, further including a coupler containing the valve and connecting the hub to the syringe.
- 24. (original) The device of claim 22, wherein the needle defines the entire passageway extending from the pointed tip to a contoured proximal end.
- 25. (original) The device of claim 22, wherein the passageway is defined in part by the needle and in part by an internal channel in the hub.
- 26. (original) The device of claim 25, wherein the needle has a straight proximal end disposed at an opening in the hub defining an end of the channel.
- 27. (original) The device of claim 22, wherein the collection well has an anticoagulant surface and the needle has an anti-friction exterior surface.
- 28. (original) The device of claim 22, further including a sheath stand defining an elongated cavity for containing the needle and having an open end mountable to the hub.
- 29. (currently amended) The device of claim 22, further including a piston lock mounted to the syringe so as to fix the position of the piston relative to the barrel.
- [[20]] <u>30</u>. (currently amended) The device of claim 22, wherein the needle defines a scoop opening at a side of the needle in communication with the passageway.
- 31. (original) A method of needle aspiration biopsy using a device as recited in claim 22, comprising the steps of:

creating a vacuum in the syringe;

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inserting the needle into a specimen sample site;

communicating the vacuum to the needle;

probing the specimen sample site with the needle to collect specimens in the collection well of the hub;

releasing the vacuum in the needle;

withdrawing the needle from the specimen sample site;

separating the hub from the device syringe; and

transferring specimens collected in the hub to an examination site.

- 32. (original) The method of claim 31, wherein the step of creating a vacuum in the syringe includes closing the valve and pulling the syringe piston away from the syringe barrel.
- 33. (original) The method of claim 32, wherein the vacuum is communicated to the needle by opening the valve.
- 34. (original) The method of claim 33, wherein the step of releasing the vacuum in the needle includes reclosing the valve.
- 35. (currently amended) A high specimen yielding anti-reflux needle aspiration biopsy device, comprising:
 - a syringe including a barrel and a piston slidable within the barrel;
 - a valve for controlling an opening in the syringe barrel;
- a hub linked to the valve and defining a specimen collection well having a volume of more than 500 micro liters; and

a needle mounted to the hub having a shaft with an open pointed tip;
wherein one or more at least one of the hub and needle define a sample
passageway extending from the needle tip to inside the collection well hub, the
sample passageway opening to an interior of the collection well through an opening
spaced from a floor of the collection well such that a specimen can pass through the
needle into the hub and be deposited in the collection well from above the floor.

[[37]] <u>36</u>. (currently amended) A high specimen yielding anti-reflux needle aspiration biopsy device, comprising:

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a syringe including a barrel and a piston slidable within the barrel;

a valve for controlling an opening in the syringe barrel; and

a hub linked to the valve and defining a specimen collection well, wherein the hub defines an internal <u>sample</u> passageway for putting the collection well in communication with a lumen of a needle;

wherein the sample passageway opens to an interior of the collection well through an opening spaced from a floor of the collection well such that a specimen can pass through the needle into the hub and be deposited in the collection well from above the floor.

[[38]] <u>37</u>. (currently amended) The device of claim 37, wherein the collection well has an interior volume of at least 100 micro liters.

39. (canceled).--